



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-02-20-18 Date: 23-02-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.
Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021
Customer's Reference : EE/DD/WO/233/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-02-2018
Sample ID No : 2018-02-20-18 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 4.4
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 21-02-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	—
2	Finess by Air permeability method (m ² /kg,Min)	275.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time (minutes)	175 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1mm	Not more than 10 mm

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R. Karthik Rechan

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Quality Manager



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-02-20-18 **Date:** 23-02-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.
Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021
Customer's Reference : EE/DD/WO/233/17-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 20-02-2018
Sample ID No : 2018-02-20-18 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 20-02-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---



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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-02-20-18 Date: 23-02-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.
Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021
Customer's Reference : EE/DD/WO/233/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-02-2018
Sample ID No : 2018-02-20-18 /03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 20-02-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-26-15 Date: 02/03/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

Customer's Reference : EE/DD/WO/233/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-02-2018

Sample ID No : 2018-02-26-15 /01

Customer ID : CC Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 02/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	CC Pavement	M30	23/02/2018	02/03/2018	150.97 X 151.95 X 151.66	22941	8.375	585.1	25.5	25.5
2	CC Pavement	M30	23/02/2018	02/03/2018	151.83 X 149.09 X 151.27	22637	7.943	593.8	26.2	
3	CC Pavement	M30	23/02/2018	02/03/2018	149.90 X 149.39 X 151.08	22393	8.391	556.5	24.9	

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Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathiri Nagara, Bengaluru - 560021
Customer's Reference : EE/DD/WO/233/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-02-2018
Sample ID No : 2018-02-26-15 /03
Customer ID : CC Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	CC Pavement	M30	23/02/2018	02/03/2018	151.75 X 150.86 X 150.03	22893	8.343	593.6	25.9	25.8
2	CC Pavement	M30	23/02/2018	02/03/2018	151.24 X 149.64 X 150.29	22632	8.145	603.2	26.7	
3	CC Pavement	M30	23/02/2018	02/03/2018	149.29 X 150.35 X 149.05	22447	8.314	554.6	24.7	

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Agency : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021
Customer's Reference : EE/DD/WO/233/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-02-2018
Sample ID No : 2018-02-26-15 /05
Customer ID : CC Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 02/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	CC Pavement	M30	23/02/2018	02/03/2018	151.03 X 149.65 X 151.35	22601	8.425	587.3	26.0	25.7
2	CC Pavement	M30	23/02/2018	02/03/2018	150.23 X 149.36 X 150.88	22439	8.411	596.5	26.6	
3	CC Pavement	M30	23/02/2018	02/03/2018	149.51 X 151.48 X 149.07	22648	8.589	555.4	24.5	

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